

LIST OF CURRENT CLAIMS

1-20 (Canceled).

21. (New) Heat exchanger, comprising a housing with a bottom, an upper wall and side walls, wherein onto two pairs of opposite side walls, the front wall and the back wall, respectively, are connected a supply and a discharge for a gas to be cooled and wherein means are provided in the housing for separating condensate from the cooled gas, comprising a series of corrugated vertical walls upon which are provided crosswise extending ribs forming vertical gutters extending from the bottom up to the upper wall of the housing, and further wherein holes are provided in the bottom for the discharge of the separated condensate from the gutters via a collector, said collector extending from at least under the holes to under an opening which is provided in the bottom between the means for separating condensate and the back wall.

22. (New) Heat exchanger according to claim 21, wherein said opening extends over the entire, or practically the entire width of the housing.

23. (New) Heat exchanger according to claim 21, wherein the collector is formed U-shaped.

24. (New) Heat exchanger according to claim 23, wherein the leg of the collector which is situated closest to the back wall, is connected to the side edge of the opening on the side of the back wall.

25. (New) Heat exchanger according to claim 21, including a standing rib on the side edge of the opening.

26. (New) Heat exchanger according to claim 25, said standing rib having a cross edge on a free end thereof which extends over practically the entire opening.

27. (New) Heat exchanger according to claim 26, said cross edge, near the side walls of the housing, being shorter than near the center of the housing.

28. (New) Heat exchanger according to claim 21, wherein between the means for separating condensate from the cooled gas and the opening, and below the bottom of the housing, a crosswise extending edge is provided.

29. (New) Heat exchanger according to claim 21, wherein the ribs are folded back at their free ends to the front wall of the housing.

30. (New) Heat exchanger according to claim 21, wherein each of the ribs is provided on the outside of a U-shaped bent part of the corrugated walls.